CLAIMS:

- 1. (original): Inertial exciter for an acoustic radiator, the exciter comprising: a massive member:
- a coupler adapted for attachment to the acoustic radiator and adapted for relative movement with respect to the massive member;
- a motor for effecting said relative movement of the coupler and the massive member; and
 - a suspension for supporting the massive member relative to the coupler;
- wherein the suspension acts in a plane generally passing through the centre of mass of the massive member, thereby reducing any moment acting on the suspension.
- 2. (original): Inertial exciter according to claim 1, wherein said motor is electromagnetic.
- 3. (original): Inertial exciter according to claim 2, wherein said motor comprises a voice coil assembly and a magnet assembly, and the massive member comprises said magnet assembly.
- 4. (original): Inertial exciter according to claim 3, wherein the suspension is generally planar.
- 5. (original): Inertial exciter according to claim 4, wherein the suspension is a spider formed from a corrugated foil of metal.
- 6. (original): Inertial exciter according to claim 4, wherein the suspension is a spider formed of polymer.
- 7. (original): Inertial exciter according to claim 4, wherein the suspension is a spider formed of strengthened cloth.
- 8. (original): Inertial exciter according to claim 4, wherein the suspension is in the form of an arm type cantilever.
- 9. (original): Inertial exciter according to claim 4, wherein the suspension is co-moulded or moulded integrally with the coupler.

- 10. (original): Inertial exciter according to claim 8, further comprising a compliant member connected in mechanical series connection between a region of the coupler local to the voice coil assembly and regions of the coupler to which the suspension is attached.
- 11. (original): Inertial exciter according to claim 10, wherein the compliant member has a lower compliance than the compliance of the suspension.
- 12. (original): Inertial exciter according to claim 11, further comprising damping to control spurious resonances.
- 13. (original): Inertial exciter according to claim 4, wherein the magnet assembly comprises a magnet sandwiched between a magnet cup and a pole piece, the cup defining a magnet gap which is filled with retentive fluid of suitable viscosity to damp motion of the voice coil.
- 14. (original): Inertial exciter according to claim 4, wherein the suspension is attached to the coupler towards the periphery of the exciter to provide restoring forces to control residual unwanted asymmetric movement.
- 15. (original): Inertial exciter according to claim 1, wherein the suspension is generally planar.
- 16. (original): Inertial exciter according to claim 15, wherein the suspension is in the form of an arm type cantilever.
- 17. (original): Inertial exciter according to claim 16, wherein the motor comprises a voice coil assembly, further comprising a compliant member connected in mechanical series connection between a region of the coupler local to the voice coil assembly and regions of the coupler to which the suspension is attached, the compliant member having a lower compliance than the compliance of the suspension.
- 18. (original): Inertial exciter according to claim 1, wherein the suspension is attached to the coupler towards the periphery of the exciter to provide restoring forces to control residual unwanted asymmetric movement.

- 19. (original): Inertial exciter assembly comprising an inertial exciter according to claim 1, a base plate for attachment to an acoustic radiator in a non-repeatedly engageable manner, and an exciter attached to said base plate in a repeatedly engageable manner.
- 20. (original): Inertial exciter assembly according to claim 19, wherein said exciter is engageable with said base plate via a connection.
- 21. (original): Inertial exciter assembly according to claim 20, wherein said connection is a threaded connection.
- 22. (original): Inertial exciter assembly according to claim 20, and including a locking device for locking said connection.
- 23. (original): Bending wave loudspeaker comprising an acoustic radiator and an inertial exciter according to claim 1, wherein said coupler is attached to the acoustic radiator.
- 24. (original): Bending wave loudspeaker according to claim 23, wherein said motor is electromagnetic.
- 25. (original): Bending wave loudspeaker according to claim 24, wherein said motor comprises a voice coil assembly and a magnet assembly, and the massive member comprises said magnet assembly.
- 26. (original): Bending wave loudspeaker according to claim 25, wherein the suspension is generally planar.
- 27. (previously presented): Bending wave loudspeaker according to claim 23, wherein said coupler comprises a base plate, and said exciter is an inertial exciter.
- 28. (original): Bending wave loudspeaker according to claim 27, wherein said exciter is engageable with said base plate via a releasable connection.
- 29. (original): Bending wave loudspeaker according to claim 28, wherein said releasable connection is a threaded connection.

13 1

- 30. (previously presented): Bending wave loudspeaker according to claim 29, further comprising a locking device for locking said threaded connection.
- 31. (currently amended): A loudspeaker exciter assembly <u>for a bending wave loudspeaker</u>, comprising:

a base plate for attachment to an <u>a bending wave</u> acoustic radiator in a non-repeatedly engageable manner; and

an exciter attached to said base plate in a repeatedly engageable manner.

- 32. (original): Loudspeaker exciter assembly according to claim 31, wherein said exciter is an inertial exciter.
- 33. (original): Loudspeaker exciter assembly according to claim 31 or claim 32, wherein said exciter is engageable with said base plate via a releasable connection.
- 34. (original): Loudspeaker exciter assembly according to claim 33, wherein said releasable connection is a threaded connection.
- 35. (original): Loudspeaker exciter assembly according to claim 34, further comprising a locking device for locking said threaded connection.
- 36. (original): Loudspeaker exciter assembly according to claim 33, further comprising a locking device for locking said releasable connection.
- 37. (original): Loudspeaker exciter assembly according to claim 31, further comprising adhesive for attaching the base plate to an acoustic radiator in a non-repeatedly engageable manner.
- 38. (currently amended): Bending wave loudspeaker comprising:

 an a bending wave acoustic radiator;
- a base plate for attachment to an the acoustic radiator in a non-repeatedly engageable manner; and

an exciter attached to said base plate in a repeatedly engageable manner.

39. (original): Bending wave loudspeaker according to claim 38, wherein the base plate is integral with the acoustic radiator.

- 40. (original): Bending wave loudspeaker according to claim 38, wherein the base plate is adhesively bonded to the acoustic radiator.
- 41. (original): Loudspeaker exciter assembly according to claim 38, wherein said exciter is an inertial exciter.
- 42. (original): Loudspeaker exciter assembly according to claim 38 or claim 41, wherein said exciter is engageable with said base plate via a releasable connection.
- 43. (original): Loudspeaker exciter assembly according to claim 42, wherein said releasable connection is a threaded connection.
- 44. (original): Loudspeaker exciter assembly according to claim 43, further comprising a locking device for locking said threaded connection.
- 45. (original): Loudspeaker exciter assembly according to claim 42, further comprising a locking device for locking said releasable connection.